

April - June 2006 Refuge Data Update

for

**Settlement Agreement
January – March 2006 Report**

June 22, 2006

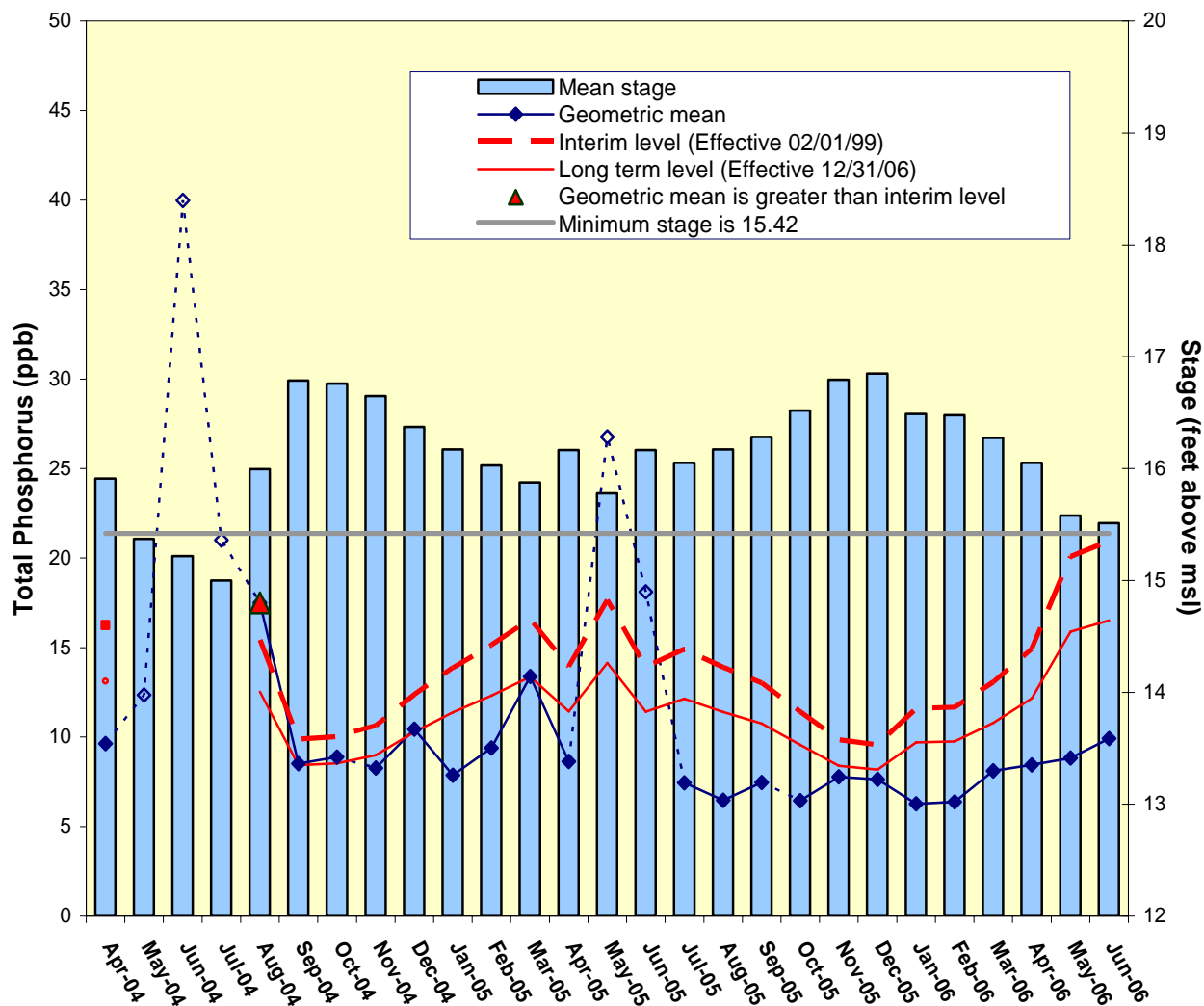


Figure. Monthly total phosphorus geometric mean concentrations for the Arthur R. Marshall Loxahatchee National Wildlife Refuge compared to the interim and long-term levels. The calculated level concentrations are adjusted for fluctuations in stage.

Interim and Long-term levels are not shown for May 2004 – July 2004 because the levels do not apply when the mean stage is less than 15.42 ft.

The TP data from May and June 2005 have been qualified as questionable in accordance with Chapter 62-160 F.A.C. and should not be used. Geometric means for May and June 2005 are shown for reference only and were not considered for compliance purposes.

May 2006 and June 2006 stage and TP concentration data are preliminary values.

Table. Loxahatchee National Wildlife Refuge Total Phosphorus Compliance Tracking.

Month - Year	Geometric Mean Concentration (ppb)	Interim Level (ppb)	Long Term Level (ppb)	Average Stage (ft NGVD)	Number of TP Samples	Number of Stage Measurements
		Effective 2/1/99	Effective 12/31/06			
Apr-2004	9.6	16.3	13.1	15.91	9	3
May-2004	12.4	N/A	N/A	15.37	9	3
Jun-2004	40.0	N/A	N/A	15.22	2	3
Jul-2004	21.0	N/A	N/A	15.00	1	3
Aug-2004	17.5	15.4	12.5	16.00	12	3
Sep-2004	8.5	9.9	8.4	16.79	14	3
Oct-2004	8.9	10.0	8.5	16.76	13	3
Nov-2004	8.3	10.6	9.0	16.65	14	3
Dec-2004	10.4	12.4	10.3	16.37	13	3
Jan-2005	7.9	13.9	11.4	16.17	12	3
Feb-2005	9.4	15.1	12.3	16.03	11	3
Mar-2005	13.4	16.6	13.4	15.88	11	3
Apr-2005	8.6	13.9	11.4	16.17	11	3
May-2005*	26.8*	17.7	14.1	15.78	10*	3
Jun-2005*	18.1*	13.9	11.4	16.17	14*	3
Jul-2005	7.4	14.9	12.1	16.05	14	3
Aug-2005	6.5	13.9	11.4	16.17	12	3
Sep-2005	7.5	13.0	10.8	16.28	11	3
Oct-2005	6.5	11.4	9.6	16.52	13	3
Nov-2005	7.8	9.8	8.4	16.79	14	3
Dec-2005	7.6	9.6	8.2	16.85	14	3
Jan-2006	6.3	11.6	9.7	16.49	13	3
Feb-2006	6.4	11.7	9.8	16.48	13	3
Mar-2006	8.1	13.1	10.8	16.28	12	3
Apr-2006	8.4	14.9	12.2	16.05	12	3
May-2006**	8.8	20.1	15.9	15.58	10	3
Jun-2006**	9.9	21.0	16.5	15.51	5	3

Notes:(1) Average Stage is calculated using stage elevations at stations 1-7, 1-8C, and 1-9 on the sampling date.

(2) Highlighted rows indicate months when excursions occurred.

(3) N/A denotes that the concentration values were not applicable because the average stage was less than 15.42 feet.

* The TP data from May and June 2005 have been qualified as questionable in accordance with Chapter 62-160 F.A.C. and should not be used.

** May 2006 and June 2006 stage and TP concentration data are preliminary values.